

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 02 AUG 2005



PCT

Applicant's or agent's file reference INSCON4(FP)	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/KR2004/000627	International filing date(day/month/year) 22 MARCH 2004 (22.03.2004)	Priority date (day/month/year) 21 MARCH 2003 (21.03.2003)
International Patent Classification (IPC) or national classification and IPC IPC7 H01B 1/24		
Applicant SUH, KWANG SUCK et al		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- ☒ Box No. I Basis of the report
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

Date of submission of the demand 15 OCTOBER 2004 (15.10.2004)	Date of completion of this report 11 JULY 2005 (11.07.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer KANG, SANG YOON Telephone No. 82-42-481-8153 

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Box No. 1 Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☒ This report is based on translations from the original language into the following language English which is the language of a translation furnished for the purposes of:
 - ☐ international search (under Rules 12.3 and 23.1(b))
 - ☒ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
 - ☒ the international application as originally filed/furnished
 - ☐ the description:
 - pages _____ as originally filed/furnished
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☐ the claims:
 - pages _____ as originally filed/furnished
 - pages* _____ as amended (together with any statement) under Article 19
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☐ the drawings:
 - pages _____ as originally filed/furnished
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
 - ☐ the description, pages _____
 - ☐ the claims, Nos. _____
 - ☐ the drawings, sheets _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 - ☐ the description, pages _____
 - ☐ the claims, Nos. _____
 - ☐ the drawings, sheets _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-15	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-15	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims	None	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1) JP 08-199075 A

D2) JP 2002-367437 A

D3) JP 2001-334611 A

D4) JP 08-138441 A

I-Novelty:

Claim 1 of the present invention is concerned with a method for allowance of point-to-ground resistance by producing a conductive or dissipative pathway between both surfaces of trays after cutting the conductive sheet. Although D1 cited in the international search report discloses conductive resin composition and conductive sheet for IC packaging, the method for granting a conductive pathway to cutting section is not described in D1. And also, D2-D4 cited in the international search report do not suggest a method for allowance of point-to-ground resistance concerning claim 1 of the present invention. Accordingly, the subject matter of claim 1 seems to be novel.(PCT Article 33(2)). Claims 2-14 also comply with PCT Article 33(2) as they are dependent claims. In addition, novelty of claim 15 concerning tray endowed with point-to-ground resistance must be clear.

II-Inventive step:

1) Concerning claim 1 (Independent claim)

The references D1-D4 do not disclose the method for granting point-to-ground resistance to both cutting surfaces of conductive sheet. Moreover, it is not obvious from the references D1-D4 by the skilled person in the art. Consequently, there is no suggestion in any of the references, either alone or in combination, which would lead to the solution posed by the present invention. Therefore, claim 1 of the present invention meets the criteria set out in PCT Article 33(3).

2) Concerning claims 2 to 14 (dependent claims).

claims 2-14 also comply with PCT Article 33(3) as they are dependent claims.

3) Concerning claim 15 (Independent claim)

Being concerned with a tray produced by specific method with inventive step, claim 15 of the present invention meets the criteria set out in PCT Article 33(3).

Claims 1 to 15 therefore meet the criteria set out in PCT Article 33(4), because they are directed to a method for the allowance of point-to-ground resistance and a tray produced thereby.

(to be continued on supplemental box)

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Numerical limitation of claim 4 does not appear to be properly supported by the description.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

III-Industrial Applicability

A method of providing a desired range of point-to-ground resistance to tray by a conductive pathway between both surfaces of the tray is industrially applicable and fulfills the requirement of industrial applicability(Article 33(4) PCT)